

What is claimed is:

1. A projection system comprising a polarization
converting part for converting an incident polarization light
5 flux into a polarization light flux having one direction, and a
color separating part for color-separating the polarization light
flux irradiated from the polarization converting part,

the polarization converting part comprising:

an FEL having a plurality of light flux dividing lenses
10 shaped in a square and arranged in a matrix configuration, for
dividing an incident light in a unit of cell;

a condenser lens array for converting an incident light
that is incident from the FEL, into a parallel light with respect
to a specific portion;

15 a green light filter for reflecting a part of green light
of a plurality of intermediate light fluxes dividedly outputted
from the FEL and passing remaining light;

a polarization separating unit array for converting an
incident light outputted from the condenser lens array into a
20 linearly polarized light having a single optic axis; and

a coupling lens for condensing an output light from the
polarization separating unit array.

2. The projection system of claim 1, wherein the green light filter is formed up and down so that a part of an upper portion and a lower portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

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3. The projection system of claim 1, wherein the green light filter is formed left and right so that a part of a left portion and a right portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

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4. The projection system of claim 1, wherein the green light filter is formed up, down, left and right so that a part of an upper portion, a lower portion, a left portion and a right portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

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5. The projection system of claim 1, wherein the green light filter is formed at a portion except for a circular central portion so that the portion except for the circular central portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

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6. The projection system of claim 1, wherein the green light filter is located between the FEL and the condenser lens array.

5 7. The projection system of claim 6, wherein the green light filter is formed up and down so that a part of an upper portion and a lower portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

10 8. The projection system of claim 6, wherein the green light filter is formed left and right so that a part of a left portion and a right portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

15 9. The projection system of claim 6, wherein the green light filter is formed up, down, left and right so that a part of an upper portion, a lower portion, a left portion and a right portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

20 10. The projection system of claim 6, wherein the green light filter is formed at a portion except for a circular central portion so that the portion except for the circular central

portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

11. The projection system of claim 1, wherein the green
5 light filter is located between the polarization separating unit array and the coupling lens.

12. The projection system of claim 11, wherein the green
light filter is formed up and down so that a part of an upper
10 portion and a lower portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

13. The projection system of claim 11, wherein the green
light filter is formed left and right so that a part of a left
15 portion and a right portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

14. The projection system of claim 11, wherein the green
light filter is formed up, down, left and right so that a part of
20 an upper portion, a lower portion, a left portion and a right portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

15. The projection system of claim 11, wherein the green light filter is formed at a portion except for a circular central portion so that the portion except for the circular central portion of an incident green light among the plurality of
5 intermediate light fluxes can be shielded.

16. The projection system of claim 1, wherein the green light filter is located on a surface of the coupling lens.

10 17. The projection system of claim 16, wherein the green light filter is formed up and down so that a part of an upper portion and a lower portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

15 18. The projection system of claim 16, wherein the green light filter is formed left and right so that a part of a left portion and a right portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

20 19. The projection system of claim 16, wherein the green light filter is formed up, down, left and right so that a part of an upper portion, a lower portion, a left portion and a right portion of an incident green light among the plurality of intermediate light fluxes can be shielded.

20. The projection system of claim 16, wherein the green light filter is formed at a portion except for a circular central portion so that the portion except for the circular central
5 portion of an incident green light among the plurality of intermediate light fluxes can be shielded.